

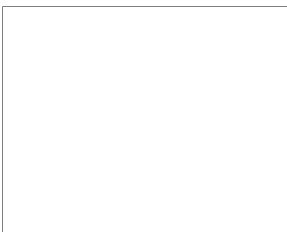
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**PHOTOGRAPHIC
INTERPRETATION
REPORT**

**NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER**

STATUS OF CSA-1 SITES, CHINA



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STATUS OF CSA-1 SITES

CHINA

ABSTRACT

1. The Communist Chinese, through site hardening, are intensifying their passive defensive measures of the CSA-1 (SAM) sites. This report differentiates the field, permanent, and hardened SAM site deployment in China. Training and operational deployment also are covered.

2. This report contains six photos, an artist's concept of a partly underground SAM site, and a location map with status table.

INTRODUCTION

3. The trend in SAM deployment within China has changed from field-type deployed sites to permanent-type sites and since 1971 to hardened permanent-type sites (Figure 1).

4. In 1966 the Chinese had three permanent (fixed) SAM sites and approximately 40 field (mobile) SAM sites. By December 1970 the number of permanent sites had increased to 24 and the number of field sites had diminished to approximately 25. The construction of permanent SAM sites and site hardening were intensified between January 1971 and January 1973. The result was an increase of 32 permanent sites, for a new total of 56 permanent SAM sites. Twenty-five of the 56 permanent sites are in varying stages of site hardening. In this same time period the number of field sites had decreased to 17.

5. [] the total Chinese CSA-1 count was 73 sites. The breakdown, by type, was 25 hardened sites (in varying stages of hardening), 31 non-hardened permanent sites, and 17 field sites (Figure 2 and Table 1).

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BASIC DESCRIPTION

Site Hardening

6. The most extensively hardened facility (item 9, Figure 2) is the Ta-chin-tao SAM Site [] at the entrance to the Po Hai (Gulf of Chihli). The launchers are mounted on narrow-gauge rails and can be moved into the tunnels to the rear of each launch position. These tunnels probably converge, forming a cavern which may be utilized as a load/reload area inside the hill. The guidance radar is mounted on an elevator and when retracted is protected by sliding doors (Figure 3).

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7. The latest concept in site hardening is at Nan-ching CO1-1 [] (item 51, Figure 2). At this site the launcher is probably rail mounted and secured in earth-mounded bunkers to the rear of each launch position. The drive-through missile-hold bunkers are on the deeply revetted intra-service roads (Figure 4).

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Training

8. Three SAM training areas have been identified in China: San-yuan SAM Training Area [], Shan-tan SAM Training Area A [] and Shan-tan SAM Training Area B [] (Figure 2). Of these facilities only the San-yuan SAM Training Area has shown an increase in training activity over the past year.

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9. A full-scale SAM site is within the training area of the San-yuan Training Area (Figure 5). However, because of its location within a heavily populated area, it is probably not used for live fire training. This installation appears to be used primarily for the training of radar operators and electronics specialists. A normal level of activity, in the past, has been based on the presence of 18 CSA-1 launchers and three guidance radars. In February 1972 [] 36 launchers and five guidance radars were observed. In July 1972 [] and October 1972 [] the level of activity fluctuated from slightly below to just above the normal level of activity. In April 1973 [] an increase in activity was again observed. This increase of activity included the presence of 48 CSA-1 launchers and five guidance radars.

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10. Shan-tan SAM Training Area A decreased in activity particularly in the number of support vehicles present. On coverage of October 1971 [] the vehicle count was 128. This decreased to 84 in February 1972 [] and further decreased to 24 in April 1973 []

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11. Shan-tan SAM Training Area B, which is the only known live fire training area, has been devoid of all missile-related activity since March 1972 [] and outwardly appears to be abandoned. In the past an increase in the level of activity at this facility usually preceded deployment of operational SAM battalions.

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REFERENCES

RELATED DOCUMENTS

DDI/IAR. [] Imagery Analysis Report, SAM Training Areas in China, Mar 68 (TOP SECRET RUFF)

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NPIC. [] Photo Interpretation Note, CSA-1 SAM Site Displaying New Hardening Concept, Ta-chin-tao, China, May 73 (TOP SECRET RUFF)

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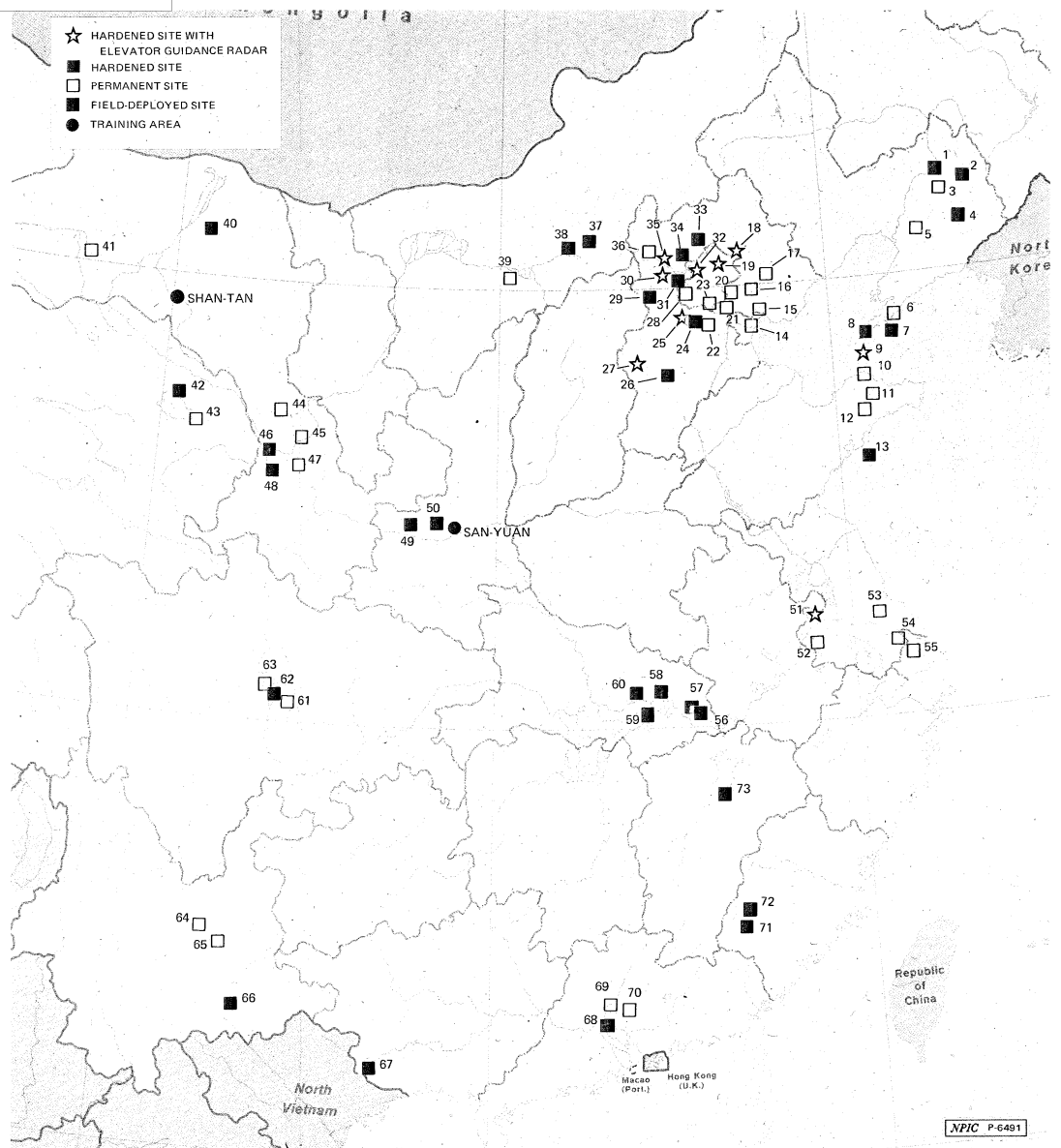


FIGURE 2. LOCATIONS OF CSA-1 SITES IN COMMUNIST CHINA. (Item numbers keyed to Table 1.)

Table 1. Status of CSA-1 Sites as of June 1973. (Items keyed to Figure 2.)

Category	Number of Students	Percentage of Total
Mathematics	15	30%
Science	10	20%
History	8	16%
Language Arts	12	24%
Physical Education	5	10%
TOTALS	50	100%

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